

## Product datasheet for **MG201471**

### Cirbp (NM\_007705) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cirbp (NM\_007705) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Cirbp  
**Synonyms:** Cirp; R74941  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG201471 representing NM\_007705  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCATCAGATGAAGGCAAGCTTTTCGTGGGAGGACTCAGCTTCGACACCAACGAGCAGGCGCTGGAGC  
 AGGTCTTCTCCAAGTATGGCAGATCTCCGAAGTGGTGGTAAAGGACAGGGAGACCCAGCGATCCCG  
 AGGCTTTGGGTTTGTACCTTTGAAAATATCGATGACGCTAAGGACGCCATGATGGCTATGAATGGGAAG  
 TCTGTGGACGGGCGCAGATCAGAGTTGACCAGGCTGGCAAGTCTTCTGACAACCGGTCCCGAGGATACC  
 GGGGTGGCTCTGCTGGAGGCCGGGCTTTTCCGTGGGGACGAAGCCGGGGCCGAGGGTTCTCCAGAGG  
 AGGAGGAGACCGGGCTATGGAGGTGGCCGCTTTGAGTCCCGAGTGGGGTTATGGAGGCTCCAGAGAC  
 TACTATGCCAGCCGGAGTCAGGGTGGCAGCTATGGTTATCGGAGCTCGGGAGGGTCTACAGAGACAGCT  
 ATGACAGTTATGCTACACACAACGAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG201471 representing NM\_007705  
 Red=Cloning site Green=Tags(s)

MASDEGKLFVGGLSFDTNEQALEQVFSKYGQISEVVVVKDRETQRSRGFGVTFENIDDAKDAMMAMNGK  
 SVDGRQIRVDQAGKSSDNRSRGYRGGGAGGRGFRGGRSRGRGFRGGGDRGYGGGRFESRSGGYGGSRD  
 YYASRSQGGSYGRSSGGSYRDSYDSYATHNE

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

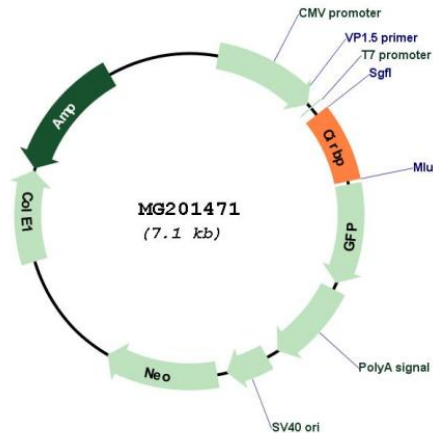


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_007705

ORF Size: 516 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_007705.3</a>
<b>RefSeq Size:</b>	1256 bp
<b>RefSeq ORF:</b>	519 bp
<b>Locus ID:</b>	12696
<b>UniProt ID:</b>	<a href="#">P60824</a>
<b>Cytogenetics:</b>	10 39.72 cM
<b>Gene Summary:</b>	Cold-inducible mRNA binding protein that plays a protective role in the genotoxic stress response by stabilizing transcripts of genes involved in cell survival. Promotes assembly of stress granules (SGs), when overexpressed. Seems to play an essential role in cold-induced suppression of cell proliferation. Acts as a translational repressor. Acts as a translational activator. Binds specifically to the 3'-untranslated regions (3' UTRs) of stress-responsive transcripts RPA2 and TXN.[UniProtKB/Swiss-Prot Function]